

BIRD WEIGHTS FROM SURINAM

BY FR. HAVERSCHMIDT

THE importance of bird weights has been stressed recently by a number of authors (e.g., Huxley, 1927; Baldwin and Kendeigh, 1938; Amadon, 1943). For palearctic birds our knowledge has become comparatively extensive, especially since the pioneer work by Heinroth (1922), and the vast material assembled by Weigold (1926) from migrant birds at Heligoland.

The latest summaries of bird weights from all over the world as given by Heinroth (1922) and Groebels (1932) show how little is known about the weights of neotropical birds. It is not always possible for collectors to take weights of their specimens during expeditions in the tropical rain forest; that is primarily a task for the resident ornithologist. Following a suggestion by Ernst Mayr, I have weighed all birds since I started collecting in Surinam in June 1946, recording the weights on the labels of the specimens. Birds weighing more than 1,000 or less than 11 grams had to be omitted. The time between the actual killing and the weighing varied from 2 to 12 hours. In the following list I give weights for 216 species of birds, with the month of the year and, in most cases, the sex of the bird weighed.

The list makes possible some interesting comparisons. For example, the Guianan race of the worldwide Barn Owl (*Tyto alba hellmayri*) weighs 446–558 grams; its smaller relative from the middle of Europe (*T. a. guttata*), according to Niethammer (vol. 2, 1938:121), only 220–355 grams. The collecting of weights of worldwide species would be of the greatest interest.

Nomenclature in the following list is based on Peters (1931–1948) and Cory and Hellmayr (1918–1942).

HERONS. ARDEIDAE

Grams

<i>Pilherodias pileatus</i>	Mch.	♂	591
<i>Butorides s. striatus</i>	Dec.	♀ imm.	155
	Jan.	♂ imm.	181
	Mch.	♂	187
	Sep.	♂	173
<i>Florida caerulea</i>	May	♂	247
<i>Bubulcus ibis</i>	Dec.	♂	326
	Jan.	3 ♀♀	330, 341, 342
		3 ♂♂	346, 372, 380
	Feb.	♀, ♂	332, 368
	Mch.	♂	345
<i>Leucophoyx t. thula</i>	May	♂	277
<i>Hydranassa t. tricolor</i>	Apr.	♀	233
	May	♂	242
<i>Tigrisoma l. lineatum</i>	Apr.	♂, ♀	875, 737
	Jly.	♂ imm.	980

IBISES and SPOONBILLS.			Grams
THRESKIORNITHIDAE			
<i>Mesembrinibis cayennensis</i>	Mch.	♂	785
<i>Guara rubra</i>	Apr.	2 ♀♀	415, 520
	Jne.	♂ imm.	890
	Nov.	♂ imm.	637
SWANS, GEESE, and DUCKS. ANATIDAE			
<i>Dendrocygna autumnalis discolor</i>	May	♀	550
	Aug.	♂	500
<i>Anas b. bahamensis</i>	Nov.	2 ♂♂	475, 527
		2 ♀♀	505, 633
	Dec.	♂	533
HAWKS. ACCIPITRIDAE			
<i>Elanus l. leucurus</i>	Apr.	♂ imm.	272
<i>Elanoïdes forficatus yetapa</i>	Jan.	♀	435
	Jne.	♀	405
<i>Odontriorchis palliatus</i>	Mch.	♀	416
<i>Chondrohierax uncinatus</i>	Mch.	♀	235
<i>Ictinia plumbea</i>	Jan.	2 ♂♂	267, 267
<i>Helicolestes hamatus</i>	Nov.	♀	450
	Dec.	♀	435
	Mch.	?	395
	Apr.	♂	377
<i>Heterospizias m. meridionalis</i>	May	♀	921
<i>Buteo m. magnirostris</i>	Jly.	♂	206
	Aug.	♀	270
		2 ♂♂	260, 240
	Sep.	♀	268
	Feb.	♀	257
<i>Buteo albicaudatus colonus</i>	Oct.	♀ imm.	585
<i>Asturina n. nitida</i>	Nov.	♂	357
	May	♀ imm.	320
	Jne.	♀	516
<i>Leucopternis a. albicollis</i>	Oct.	♂	600
<i>Hypomorphnus u. urubutinga</i>	Sep.	♀ imm.	659
<i>Buteogallus aequinoctialis</i>	Jly.	♀	735
	Sep.	♂, ♀	760, 730
	Nov.	♂	634
	Jan.	♂ imm.	636
	Mch.	♀ imm.	600
<i>Busarellus n. nigricollis</i>	Apr.	♀	829
	May	♂	502
<i>Geranospiza caerulescens</i>	Apr.	♂	230
	May	♂, ♀	295, 284
<i>Herpetotheres c. cachinnans</i>	Aug.	♂	567
<i>Micrastur mirandollei</i>	Jne.	♀	556
<i>Daptrius a. americanus</i>	Apr.	♀	586
<i>Daptrius ater</i>	Jly.	♂	330
<i>Milvago chimachima paludivagus</i>	Mch.	?	251
	May	♀	326
	Aug.	♂, ♂ imm.	310, 235
<i>Falco peregrinus anatum</i>	Dec.	♂	575
<i>Falco a. albigularis</i>	Sep.	♂	120
	Oct.	♂	132
	Dec.	♂, ♀	108, 206
CURASSOWS. CRACIDAE			
<i>Ortalis m. motmot</i>	Jan.	♂	495
	Mch.	♂	500
	May	♂	493
	Oct.	♀	385

			Grams
PHEASANTS. PHASIANIDAE			
<i>Colinus cristatus sonnini</i>	Aug.	♂	117
LIMPKINS. ARAMIDAE			
<i>Aramus s. scolopaceus</i>	Dec.	♀	930
RAILS. RALLIDAE			
<i>Aramides c. cajanea</i>	Jne.	♀	462
<i>Porphyryla martinica</i>	Jly.	♀	213
SUN-GREBES. HELIORNITHIDAE			
<i>Heliornis fulica</i>	Oct.	♂ imm.	110
SUN-BITTERNS. EURYPYGIDAE			
<i>Eurypyga h. helias</i>	Nov.	♀	211
	Feb.	♂	295
JACANAS. JACANIDAE			
<i>Jacana spinosa jacana</i>	Mch.	♂	118
	Apr.	♂	112
PLOVERS. CHARADRIIDAE			
<i>Charadrius hiaticula semipalmatus</i>	Dec.	?	45
<i>Charadrius collaris</i>	Oct.	2 ♂♂	25, 23
	Nov.	♀	26
	Apr.	♀	27
<i>Charadrius wilsonia cinnamominus</i>	Nov.	♂	56
SANDPIPERS. SCLOPACIDAE			
<i>Bartramia longicauda</i>	Mch.	♂	166
<i>Tringa flavipes</i>	Nov.	2 ♂♂	68, 79
<i>Tringa melanoleuca</i>	Mch.	?	145
<i>Tringa solitaria cinnamomea</i>	Sep.	♀	37
	Dec.	♂	38
<i>Actitis macularia</i>	Sep.	♂	37
	Oct.	♀	25
<i>Catoptrophorus s. semipalmatus</i>	Mch.	♀	236
<i>Limnodromus g. griseus</i>	Sep.	♂	81
<i>Capella p. paraguaiae</i>	May	♂	130
	Oct.	♂	88
<i>Ereunetes pusillus</i>	Sep.	♂	20
	Nov.	♂	22
	Mch.	?,♀	22, 20
<i>Erolia minutilla</i>	Oct.	♂,♀	17, 22
<i>Erolia fuscicollis</i>	Nov.	♂,♀	23, 36
<i>Erolia melanotos</i>	Oct.	3 ♂♂	46, 55, 56
<i>Himantopus himantopus mexicanus</i>	Nov.	♂	149
	Dec.	?	132
GULLS. LARIDAE			
<i>Phaetusa s. simplex</i>	Jne.	♂	239
	Aug.	?	208
<i>Gelochelidon nilotica aranea</i>	Nov.	♀	154
<i>Sterna albifrons antillarum</i>	Sep.	♂	39
<i>Sterna superciliaris</i>	Jne.	♂	57
SKIMMERS. RYNCHOPIDAE			
<i>Rynchops nigra cinerascens</i>	Apr.	♂	298
PIGEONS. COLUMBIDAE			
<i>Columba speciosa</i>	Dec.	2 ♂♂	315, 296
<i>Columba cayennensis cayennensis</i>	Mch.	♂	193
	Jly.	♂	167

			Grams
<i>Columba plumbea pallescens</i>	Nov.	♂	110
<i>Columbigallina passerina griseola</i>	Jan.	♂	32
	Apr.	♂	34
	Sep.	♂	34
	Oct.	♂	29
	Nov.	2 ♂♂	27, 29
<i>Columbigallina t. talpacoti</i>	Jne.	♂	41
	Jly.	♀	45
	Aug.	♀	44
	Sep.	♀	52
<i>Columbigallina m. minuta</i>	Jne.	2 ♂♂	27, 34
	Sep.	♂	28
	Nov.	2 ♂♂	26, 30
		2 ♀♀	28, 34
<i>Leptotila r. rufaxilla</i>	Jan.	♂	135
	Oct.	♂	152
<i>Leptotila verreauxi brasiliensis</i>	Feb.	♂,♀	120, 100
	Mch.	♂	129
	Jne.	♀	121
	Aug.	♀	99
	Oct.	♂	113
<i>Oreopeleia montana</i>	Oct.	♂	85
PARROTS. PSITTACIDAE			
<i>Ara s. severa</i>	Jne.	♀	364
<i>Ara n. nobilis</i>	Feb.	♀	129
<i>Aratinga l. leucophthalmus</i>	Jly.	♂,♀	160, 165
<i>Aratinga pertinax chrysophrys</i>	Jne.	♀	78
	Aug.	♂,♀	90, 100
<i>Pyrrhura picta picta</i>	May	3 ♀♀	65, 69, 63
<i>Forpus p. passerinus</i>	Feb.	♀	20
	May	♂,♀	22, 23
	Jne.	♂,♀	20, 23
	Aug.	♂	21
<i>Brotogeris c. chrysopterus</i>	Apr.	♂,♀	53, 49
	Sep.	♂	49
<i>Pionites m. melanocephala</i>	Jly.	♂	152
		2 ♀♀	148, 130
<i>Pionus menstruus</i>	Nov.	♀	213
<i>Pionus fuscus</i>	Jly.	♂	199
<i>Amazona o. ochrocephala</i>	Nov.	♀	451
	Jan.	♀	406
<i>Amazona amazonica amazonica</i>	Jan.	♂,♀	298, 312
<i>Deroptyus a. accipitrinus</i>	Jan.	♂	270
	Feb.	♂,♀	211, 190
CUCKOOS. CUCULIDAE			
<i>Coccyzus a. americanus</i>	Apr.	♀	59
<i>Coccyzus m. minor</i>	Aug.	♀	63
<i>Piaya c. cayana</i>	Jly.	♂	93
	Aug.	♂	94
	Sep.	♂	84
	Oct.	♂	93
	Nov.	♂	101
<i>Piaya m. minuta</i>	Jan.	♂	38
	Apr.	♀	44
	Jne.	♀	37
	Sep.	♀	37
<i>Crotophaga major</i>	Mch.	?	169
	May	♂	159
<i>Crotophaga ani</i>	Jly.	2 ♂♂	95, 108
	Aug.	2 ♂♂	78,99

			Grams
<i>Tapera n. naevia</i>	Mch.	♂	40
	Apr.	♀	41
BARN OWLS. TYTONIDAE			
<i>Tyto alba hellmayri</i>	Nov.	♀	498
	Apr.	♀	446
	Mch.	♂,♀	485, 558
TYPICAL OWLS. STRIGIDAE			
<i>Otus choliba crucigerus</i>	May	♂	142
<i>Pulsatrix perspicillata perspicillata</i>	Jne.	♂	591
	Dec.	♀	765
<i>Rhinoptynx c. clamator</i>	Nov.	♂	347
	May	♀	502
POTOOS. NYCTIBIDAE			
<i>Nyctibius grandis</i>	Nov.	♀	581
GOATSUCKERS. CAPRIMULGIDAE			
<i>Nyctidromus a. albicollis</i>	Sep.	2 ♂♂	49, 54
	Apr.	♂	53
<i>Chordeiles a. acutipennis</i>	Jan.	♂	46
	Nov.	♂	47
SWIFTS. APODIDAE			
<i>Chaetura s. spinicauda</i>	Oct.	♂	14
TROGONS. TROGONIDAE			
<i>Trogon m. melanurus</i>	Jly.	♂,♀	107, 88
<i>Trogon s. strigilatus</i>	Jly.	♀	69
	Aug.	♀	79
	Sep.	♀	73
	Nov.	♂	81
	Feb.	♂	78
KINGFISHERS. ALCEDINIDAE			
<i>Ceryle t. torquata</i>	May	♀	293
<i>Chloroceryle a. americana</i>	Mch.	♂	25
	Oct.	♀	23
<i>Chloroceryle i. inda</i>	Mch.	♂	46
	Apr.	♂	55
<i>Chloroceryle ae. aenea</i>	Dec.	♂	15
	Mch.	♂	11
	Apr.	♂,♀	11, 15
	May	♂	12
JACAMARS. GALBULIDAE			
<i>Galbula d. dea</i>	Apr.	♂	31
	May	♂,♀	22, 24
	Aug.	♂	25
	Oct.	♂	30
<i>Galbula galbula</i>	Jan.	♂	20
	Mch.	♀	20
	May	♂	18
	Jly.	♀	22
	Nov.	♀	21
PUFF-BIRDS. BUCCONIDAE			
<i>Notharchus t. tectus</i>	Jan.	♀	28
	Feb.	♂	23
	Oct.	♀	27
	Nov.	♂	21
<i>Bucco t. tamiata</i>	Dec.	2 ♀♀	33, 35
<i>Monasa atra</i>	Apr.	♂,♀	85, 91
	Oct.	♀	94.5
<i>Chelidoptera t. tenebrosa</i>	Sep.	♂	34
	Oct.	2 ♂♂	29, 32
		♀	37
	Nov.	♂	31

BARBETS. CAPITONIDAE

			Grams
<i>Capito niger</i>	Sep.	♂	44
	Nov.	♂	54

TOUCANS. RAMPHASTIDAE

<i>Ramphastos tucanus</i>	Jly.	♂	690
	Aug.	♀	420
	Oct.	♂	540
<i>Pteroglossus aracari atricollis</i>	Feb.	♀	218
	Jne.	♂	210
	Apr.	♀	152
	May	♂	279
<i>Pteroglossus viridis</i>	Jly.	♀	130
	Dec.	♂	121
	Feb.	♀	120
<i>Selenidera culik</i>	Jly.	2 ♂♂	129, 135
		♀	138

WOODPECKERS. PICIDAE

<i>Melanerbes cruentatus</i>	Feb.	2 ♂♂	60, 63
	Sep.	♂	56
<i>Chrysophilus p. punctigula</i>	Feb.	♂,♀	65, 61
	Nov.	♂	62
	May	♂	63
		2 ♀♀	52, 58
<i>Celeus elegans hellmayri</i>	Feb.	♀	154
	Apr.	♂	152
	Jne.	♀	139
<i>Celeus torquatus</i>	Jne.	2 ♂♂	107, 113
<i>Dryocopus l. lineatus</i>	Mch.	♂	209
	Apr.	♂	217
	May	♀	158
	Aug.	♂	206
	Sep.	♂	210
<i>Phloeocastes rubricollis</i>	Jne.	♀	206
	Dec.	♂	197
<i>Phloeocastes m. melanoleucos</i>	Mch.	♀	230
	Apr.	♀	251
	Aug.	♂,♀	247, 251
<i>Veniliornis sanguineus</i>	Jan.	♀	26
	Mch.	♂	30
	May	♂	24
	Jly.	♂	24
	Sep.	♂,♀	30, 23
<i>Veniliornis cassini</i>	Jly.	♂	27
	Sep.	♂	28
	Oct.	♀	33
<i>Picumnus minutissimus</i>	Jan.	♂	11
	Mch.	♀	13
	Dec.	♀	12

WOOD-HEWERS. DENDROCOLAPTIDAE

<i>Xenops minutus ruficaudus</i>	Sep.	♂	11
<i>Glyphorhynchus s. spirurus</i>	Feb.	♂	14
	Aug.	♂	12
	Sep.	♀	13
	Oct.	♀	14
<i>Dendroplex p. picus</i>	Jan.	♀	38
	Aug.	♂	36
	Sep.	♂	35
	Oct.	2 ♂♂	35, 39
		♀	38

			Grams
<i>Xiphorhynchus guttatus polystictus</i>	Oct.	♀	49
	Nov.	♂	53
<i>Xiphorhynchus o. obsoletus</i>	Sep.	♂	37
<i>Dendrocincla f. fuliginosa</i>	Jly.	♂	42
<i>Dendrexetastes r. rufigula</i>	Apr.	♀	68
OVEN-BIRDS. FURNARIIDAE			
<i>Synallaxis albescens albigularis</i>	Aug.	♂	12
<i>Synallaxis r. rutilans</i>	Dec.	♂, ♀	15, 16
	Jan.	♂	17
<i>Synallaxis g. gujanensis</i>	Apr.	♂	23
	May	♂	16
<i>Certhiaxis cinnamomea cinnamomea</i>	Oct.	♂	13
	May	♂	16
ANT-BIRDS. FORMICARIIDAE			
<i>Taraba major semifasciatus</i>	Nov.	♂	59
	Dec.	♂	55
	May	♀	57
<i>Sakesphorus c. canadensis</i>	May	♂	22
	Jly.	♂	20
	Sep.	♀	20
	Feb.	♀	25
<i>Thamnophilus d. doliatus</i>	Apr.	♀	25
	Jly.	♂	30
	Sep.	♂	32
	Oct.	♀	25
	Feb.	♂	25
<i>Thamnophilus p. punctatus</i>	Dec.	♂	20
	Jan.	♂, ♀	21, 25
	Jly.	♂	21
	Sep.	2 ♂♂	17, 17
		♀	16
	Oct.	♂	22
<i>Sclateria n. naevia</i>	Jan.	♂	20
	May	♂	21
<i>Cercomacra n. nigrescens</i>	May	♂	19
<i>Cercomacra tyrannina saturator</i>	Jan.	♂	19
<i>Myrmoborus leucophrys angustirostris</i>	Jan.	♀	16
	May	♂	17
<i>Percnostola r. rufifrons</i>	Oct.	♀	26
	Nov.	♂	24
	Feb.	♂	29
	Jly.	♂	25
<i>Myrmoderus ferrugineus</i>	Oct.	♀	25
<i>Myrmoderus a. atrothorax</i>	Jan.	♂	18
	Sep.	♀	12
	Dec.	♀	16
COTINGAS. COTINGIDAE			
<i>Attila c. cinnamomeus</i>	Nov.	♂	41
	May	♀	28
	Jly.	♂	40
	Aug.	♂	37
	Dec.	♂	40
<i>Rhytipterna simplex frederici</i>	Sep.	♀	29
	Dec.	♂	36
<i>Pachyramphus rufus</i>	Feb.	♂	18
	Mch.	♀	15
	Jne.	♂	14
	Jly.	♀	17

			Grams
<i>Pachyramphus marginatus nanus</i>	Jan.	♂	21
	Oct.	♀	22
	Nov.	♀	22
<i>Pachyramphus polychopterus tristis</i>	Sep.	♂	17
<i>Platyptaris minor</i>	Jan.	♀	36
<i>Tityra c. cayana</i>	Aug.	♀	60
	Sep.	♂	68
<i>Tityra inquisitor erythrogegens</i>	Jan.	♂	36
<i>Querula purpurata</i>	Apr.	♂	109
	Jly.	♂, ♀	95, 99
MANAKINS. PIPRIDAE			
<i>Pipra a. aureola</i>	Jne.	♂	14
<i>Manacus m. manacus</i>	Jly.	♂	15
	Aug.	♀	12
	Nov.	2 ♀♀	11, 15
	Feb.	♂	13
TYRANT FLYCATCHERS. TYRANNIDAE			
<i>Fluvicola p. pica</i>	Mch.	♂	13
	Jly.	♀	11
<i>Arundinicola leucocephala</i>	Jan.	♂	13
<i>Muscivora tyrannus</i>	Apr.	♂	35
	Jne.	♂	32
	Sep.	♂	36
<i>Tyrannus melancholicus despotes</i>	Sep.	♂	42
	Dec.	♀	37
	Feb.	♂	38
<i>Tyrannus dominicensis vorax</i>	Mch.	♂, ♀	50, 48
<i>Legatus leucophaius leucophaius</i>	Feb.	♂	19
	Apr.	♀	24
	May	♂	20
	Oct.	♂	21.5
<i>Myiodynastes maculatus maculatus</i>	Mch.	♀	40
	May	2 ♂♂	39, 48
		♀	46
	Aug.	♀	45
<i>Megarynchus p. pitangua</i>	Jly.	♂	61
	Dec.	♂, ♀	53, 52
<i>Myiozetetes c. cayanensis</i>	Dec.	♀	24
	Feb.	♂	26
	Oct.	♂	28
<i>Pitangus s. sulphuratus</i>	Jne.	♂ imm.	50
	Jly.	♂	57
	Sep.	♂	57
	Feb.	♂	49
<i>Pitangus l. lictor</i>	May	2 ♂♂	27, 25
		♀	23
	Jne.	♂	24
<i>Elaenia f. flavogaster</i>	Nov.	♂	22
<i>Elaenia cristata</i>	May	♂	16
	Oct.	3 ♂♂	14, 17.5, 18.5
	Dec.	♂	23
<i>Elaenia gaimardii guianensis</i>	Jan.	♂	11
<i>Cnemotriccus fuscatus fumosus</i>	Jne.	♀	26
<i>Empidonomus varius rufinus</i>	Jly.	♂	24
SWALLOWS. HIRUNDINIDAE			
<i>Progne ch. chalybea</i>	May	♂ imm.	30
	Sep.	♀	36
<i>Stelgidopteryx ruficollis cacabatus</i>	Mch.	2 ♂♂	14, 16
	Apr.	♀	15

			Grams
<i>Iridoprocne albiventer</i>	Apr.	♂	17
CROWS and JAYS. CORVIDAE			
<i>Cyanocorax cayanus</i>	Dec.	♀	175
WRENS. TROGLODYTIDAE			
<i>Thryothorus leucotis albipectus</i>	Jan.	♂	22
<i>Thryothorus c. coraya</i>	Feb.	♂	18
	Aug.	♀	19
	Dec.	♂	21
MOCKINGBIRDS. MIMIDAE			
<i>Mimus g. gilvus</i>	Jly.	♂	56
	Oct.	♂,♀	58, 55
<i>Donacobius a. atricapillus</i>	Aug.	♂,♀	38, 31
	Nov.	♂	33
THRUSHES. TURDIDAE			
<i>Turdus n. nudigenis</i>	Sep.	♀	58
	Oct.	♂	60
	Dec.	♀	67
<i>Turdus f. fumigatus</i>	Oct.	♂	75
<i>Turdus leucomelas ephippialis</i>	Apr.	♂	73
	Jly.	♂ imm.	55
	Feb.	♂	63
HONEY-CREEPERS. COEREBIDAE			
<i>Cyanerpes cyaneus cyaneus</i>	Oct.	♂	12
	Dec.	♂,♀	15, 16
	Apr.	♂ imm.	12
<i>Dacnis c. cayana</i>	Sep.	♀	12
	Oct.	♂	12
		2 ♀♀	12, 13
TROUPIALS. ICTERIDAE			
<i>Xanthornus d. decumanus</i>	Aug.	♂	280
<i>Xanthornus viridis</i>	Jly.	♂	330
<i>Cacicus cela cela</i>	Nov.	♂	81
	Dec.	♂	103
<i>Cacicus h. haemorrhous</i>	Dec.	♀	74
	Feb.	♂	104
<i>Psomocolax o. oryzivorus</i>	Nov.	♂	120
<i>Molothrus bonariensis minimus</i>	Aug.	♂	36
	Oct.	♂	39
<i>Holoquiscalus l. lugubris</i>	Aug.	2 ♂♂	60, 65
<i>Icterus chrysocephalus</i>	Nov.	♂	38
	Jan.	♀	41
<i>Icterus n. nigrogularis</i>	Dec.	♂	35
	Feb.	♀	30
	Mch.	♂	35
<i>Agelaius i. icterocephalus</i>	May	♂	35
<i>Leistes m. militaris</i>	May	♂,♀	51, 39
<i>Sturnella magna praticola</i>	Oct.	♂,♀	86, 73
TANAGERS. THRAUPIDAE			
<i>Tanagra v. violacea</i>	Feb.	♂	11
<i>Calospiza p. punctata</i>	Feb.	♀	13
<i>Calospiza m. mexicana</i>	Jly.	♂	27
	Sep.	♂	17
<i>Thraupis e. episcopus</i>	Dec.	♀	37
	Jly.	♀	32
<i>Thraupis palmarum melanoptera</i>	Aug.	?	45
	Sep.	2 ♂♂	37, 26
<i>Ramphocelus c. carbo</i>	May	♀	23
	Sep.	♂	26

			Grams
<i>Tachyphonus rufus</i>	Jne.	♂	33
	Jly.	♀	31
	Sep.	♂	34
	Oct.	♂	31
<i>Nemosia p. pileata</i>	Oct.	♂, ♀	15, 15
	Jan.	♀	16
	Feb.	♂	15
	Apr.	♀	12
	May	2 ♂♂	15, 16
<i>Lamprospiza melanoleuca</i>	Apr.	♂, ♀	32, 34
<i>Schistochlamys m. melanopis</i>	Jan.	♂	34
	Aug.	♂	38
FINCHES. FRINGILLIDAE			
<i>Saltator m. maximus</i>	Nov.	♀	55
<i>Saltator coerulescens olivascens</i>	Feb.	♂	48
	Mch.	♂	47
	May	♂	50
	Feb.	♂	24
<i>Cyanocompsa cyanoides rothschildii</i>	Mch.	♂	11
<i>Sporophila a. americana</i>	Jne.	♂	11
	Feb.	♂	12
	Oct.	♂	22
<i>Arremon t. taciturnus</i>	Nov.	♂	23
	Dec.	♂	28
	Oct.	2 ♂♂	14, 17.5
<i>Myospiza h. humeralis</i>		♀	15

LITERATURE CITED

- AMADON, DEAN
1943 Bird weights as an aid in taxonomy. *Wils. Bull.*, 55: 164-177.
- BALDWIN, S. PRENTISS, and S. CHARLES KENDEIGH
1938 Variations in the weight of birds. *Auk*, 55:416-467.
- CORY, CHARLES B., and CHARLES E. HELLMAYR
1918-1942 Catalogue of the birds of the Americas. *Field Mus. Nat. Hist. Zool. Ser.*, 13, Pts. 1-11.
- GROEBBELS, FRANZ
1932 *Der Vogel*. Vol. 1. Berlin.
- HEINROTH, OSCAR
1922 Die Beziehungen zwischen Vogelgewicht, Eigewicht, Gelegegewicht und Brutdauer. *Jour. f. Ornith.*, 70:172-285.
- HUXLEY, J. S.
1927 On the relation between egg-weight and body-weight in birds. *Jour. Linn. Soc. London (Zoology)*, 46:457-466.
- NIETHAMMER, GÜNTHER
1938 *Handbuch der Deutschen Vogelkunde*. Three volumes. Vol. 2. Leipzig.
- PETERS, JAMES L.
1931-1948 Check-list of birds of the world. Vols. 1-6. Cambridge, Mass.
- WEIGOLD, HUGO
1926 Masse, Gewichte und Zug nach Alter und Geschlecht bei Helgoländer Zugvögeln. *Wissenschaftliche Meeresuntersuchungen. Neue Folge. Abteilung Helgoland*. Vol. 15, No. 17.

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